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APPLICATION NO. FILING DATE		FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO		
10/062,942	01/31/2002	Barbara Vasquez	P2002,0075 5160			
75	90 06/06/2003					
LERNER AND GREENBERG, P.A.			EXAMINER			
Post Office Box Hollywood, FL			ROMAN, ANGEL			
			ART UNIT	PAPER NUMBER		
		•	2812			
			DATE MAILED: 06/06/2003			

Please find below and/or attached an Office communication concerning this application or proceeding.

				Application No.		Applicant(s)	/		
		,		10/062,942		VASQUEZ ET AL			
	Offic	Action Summary	•	Examiner		Art Unit			
				Angel Roman		2812			
Period fe		LING DATE of this commu	nication appe	ears on the cover s	sheet with the c	orrespondence ad	Idress		
A SH THE - Exte afte - If th - If No - Faili - Any	MAILING I ensions of time or SIX (6) MONT e period for replo o period for repure to reply with reply received	O STATUTORY PERIOD IN COMMUNICATE OF THIS COMM	IICATION. s of 37 CFR 1.136 munication. 30) days, a reply tatutory period wi y will, by statute,	6(a). In no event, however within the statutory minim ill apply and will expire SI cause the application to b	er, may a reply be tim num of thirty (30) day: X (6) MONTHS from secome ABANDONE	nely filed s will be considered timel the mailing date of this c D (35 U.S.C. § 133).	y. ommunication.		
1)🖾	Respons	sive to communication(s) f	iled on <u>05 M</u>	<u>larch 2003</u> .					
2a)⊠	This acti	on is <b>FINAL</b> .	2b) This	s action is non-fina	al.				
3)		is application is in conditio					ne merits is		
Disposit	closed in tion of Cla	n accordance with the practims	ctice under <i>E</i>	Ex parte Quayle, 1	935 C.D. 11, 4	53 O.G. 213.			
4)🖂	4) Claim(s) 1-7 is/are pending in the application.								
	4a) Of the above claim(s) is/are withdrawn from consideration.								
5)🖂	Claim(s)	<u>1-4</u> is/are allowed.							
6)⊠	6)⊠ Claim(s) <u>5-7</u> is/are rejected.								
7)	Claim(s) is/are objected to.								
		are subject to restri	ction and/or	election requirem	ent.				
	tion Paper		- <b>-</b>						
,		fication is objected to by the			<u></u>	4h - Evenines			
10)[X]		ng(s) filed on <u>31 January 2</u>							
11)	• •	t may not request that any ob sed drawing correction file	=				er		
' '/-		ed, corrected drawings are re				ved by the Examin	<b>.</b>		
12)	• •	or declaration is objected t	•	•					
<i>,</i> —		J.S.C. §§ 119 and 120	,						
-		edgment is made of a clair	n for foreian	priority under 35 l	U.S.C. § 119(a	)-(d) or (f).			
•—		☐ Some * c)☐ None of:	Ü		• •	, , , , ,			
,		rtified copies of the priority	documents	s have been receiv	ed.				
	2. Certified copies of the priority documents have been received in Application No								
*		pies of the certified copies application from the Inter ached detailed Office acti	national Bur	eau (PCT Rule 17	'.2(a)).		Stage		
14) 🔲 .	Acknowled	gment is made of a claim	for domestic	priority under 35	U.S.C. § 119(e	e) (to a provisiona	l application).		
	· —	ranslation of the foreign la Igment is made of a claim		• •					
Attachme		-							
2) Noti	ce of Draftspe	ces Cited (PTO-892) erson's Patent Drawing Review ( osure Statement(s) (PTO-1449)		5) 🔲 N		(PTO-413) Paper No Patent Application (PT			

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#### **DETAILED ACTION**

## Claim Rejections - 35 USC § 102

1. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

(b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.

2. Claims 5-7 are rejected under 35 U.S.C. 102(b) as being anticipated by Komiyama et al. U.S. Patent 5,110,388 A.

Komiyama et al. discloses a method of applying a protective coating to a bottom surface of a wafer A, comprising; applying a protective foil 3 onto a mounting tape 2; and mounting a bottom surface of the wafer A onto the mounting tape with the protective foil 3 facing and in contact with the bottom surface of the wafer A (see figure 2) to protect the bottom surface thereof (see figure 3). Komiyama et al. also discloses dicing the wafer A including the protective foil 3 into dies (see figure 3); and picking the dies with the protective foil off the mounting tape 2 (see figures 5 and 6). The mounting tape 2 is a UV foil; and the step of picking off the dies includes applying UV-radiation B to separate the UV-foil 2 from the protective foil 3 (see figure 4).

# Allowable Subject Matter

3. Claims 1-3 and 4 are allowed.

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4. The following is a statement of reasons for the indication of allowable subject matter: The related art disclosed in Sugino et al. appears to be the closes related prior art to claims 1-4 but lacks anticipation on filling the trenches by applying a material to the bottom surface of the wafer as required by claims 1 and 3. In the examiner's opinion it would not have been obvious to fill the trenches with the material applied to the bottom surface of the wafer in the Sugino et al. reference.

## Response to Arguments

5. Applicant's arguments with respect to claims 1-7 have been considered but are most in view of the new ground(s) of rejection.

### Conclusion

- 6. The prior art made of record and not relied upon is considered pertinent to applicant's disclosure. Kimura et al. and Nixon et al. disclose methods for dicing a semiconductor wafer by forming trenches in a front surface of the wafers and grinding a back side of the wafers.
- 7. Applicant's amendment necessitated the new ground(s) of rejection presented in this Office action. Accordingly, **THIS ACTION IS MADE FINAL**. See MPEP § 706.07(a). Applicant is reminded of the extension of time policy as set forth in 37 CFR 1.136(a).

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8. A shortened statutory period for reply to this final action is set to expire THREE MONTHS from the mailing date of this action. In the event a first reply is filed within TWO MONTHS of the mailing date of this final action and the advisory action is not mailed until after the end of the THREE-MONTH shortened statutory period, then the shortened statutory period will expire on the date the advisory action is mailed, and any extension fee pursuant to 37 CFR 1.136(a) will be calculated from the mailing date of the advisory action. In no event, however, will the statutory period for reply expire later than SIX MONTHS from the date of this final action.

9. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Angel Roman whose telephone number is (703) 306-0207. The examiner can normally be reached on Monday-Friday 8:30am-6:00pm.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, John Niebling can be reached on (703) 308-3325. The fax phone numbers for the organization where this application or proceeding is assigned are (703) 308-7724 for regular communications and (703) 308-7724 for After Final communications.

Any inquiry of a general nature or relating to the status of this application or proceeding should be directed to the receptionist whose telephone number is (703) 308-1782.

AR May 22, 2003

> John F. Niebling **Supervisory Patent Examiner Technology Center 2800**

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